

Abstract

The present invention discloses a process for dry distillation and decarbonization of oil shale species using fluidized bed. The shale oil contained in oil shale having 5 certain size distribution in fluidizing condition is gasified by using high temperature dry gas and/or high temperature stream as heat carrier and fluidizing medium, meanwhile, dry gas dissolves some organics in oil shale, that is, fluidizing, dry distilling and deoiling. The powder which has removed shale oil is fluidized by high temperature air under oxygen-rich condition. The carbon in oil shale is combusted, i.e. 10 fluidizing decarbonization.